

ONKYO®**DVD Player**

DV-SP301

Instruction Manual

Thank you for purchasing the Onkyo DVD Player.
Please read this manual thoroughly before making connections and turning on the power.
Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new DVD Player.
Please retain this manual for future reference.



Contents

Before Using Your DVD Player 2

Getting Started 6

Facilities and Connections 10

Basic Operations 17

Advanced Operations 22

Function Setup 30

Others 37

En

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Cleaning** – Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
6. **Attachments** – Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
7. **Water and Moisture** – Do not use the appliance near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories** – Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
10. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 5 cm (2 in.) and an opening behind the appliance.
11. **Power Sources** – The appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
12. **Grounding or Polarization** – The appliance may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. **Lightning** – For added protection for the appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
15. **Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. **Object and Liquid Entry** – Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
17. **Servicing** – Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. **Damage Requiring Service** – Unplug the appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power-supply cord or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the appliance,
 - C. If the appliance has been exposed to rain or water,
 - D. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation,
 - E. If the appliance has been dropped or damaged in any way, and
 - F. When the appliance exhibits a distinct change in performance – this indicates a need for service.
19. **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. **Safety Check** – Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition.
21. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
22. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
23. **Liquid Hazards** – The appliance should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the appliance.

PORTABLE CART WARNING



S3125A

Precautions

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

DANGER:

VISIBLE LASER AND INVISIBLE RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

The label below is applied on the rear panel except for USA and Canadian models.

**CLASS 1 LASER
PRODUCT**

1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

For U.S. model

The laser is covered by a housing which prevents exposure during operation or maintenance. However, this product is classified as a Laser Product by CDRH (Center for Devices and Radiological Health) which is a department of the Food and Drug Administration. According to their regulations 21 CFR section 1002.30, all manufacturers who sell Laser Products must maintain records of written communications between the manufacturer, dealers and customers concerning radiation safety. If you have any complaints about instructions or explanations affecting the use of this product, please feel free to write to the address on the back page of this manual. When you write us, please include the model number and serial number of your unit.

In compliance with Federal Regulations, the certification, identification and the period of manufacture are indicated on the rear panel.

FCC INFORMATION FOR USER

CAUTION:

The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For Canadian model

This class B digital apparatus complies with Canadian ICES-003. For models having a power cord with a polarized plug:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.


Sur les modèles dont la fiche est polarisée:

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Precautions


1. Regional Restriction Codes (Region Number)

Regional restriction codes are built into DVD Players and DVD-Video media for each sales region. If the regional code of the DVD Player does not match one of the regional codes on the DVD-Video, playback is not possible.

The regional number can be found on the rear panel of the DVD Player. (e.g.  for Region 1)

2. About This Manual

This manual explains the basic procedures for operating the DVD Player. Some DVD-Video discs do not support the full potential of the DVD technology. Your DVD Player may therefore not respond to all operating commands. Refer to instruction notes on discs.

A “” mark may appear on the TV screen during operation. It means that the operation is not permitted by the DVD Player or the disc.

3. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

4. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where the unit will be used meets the required voltage (e.g., AC 120 V, 60 Hz) written on the rear panel.

5. Do not touch the unit with wet hands

Do not handle the unit or power cord when your hands are wet or damp. If water or any other liquid enters the case, take the unit to an authorized service center for inspection.

6. Location of the unit

- Place the unit in a well-ventilated location. Take special care to provide plenty of ventilation on all sides of the unit especially when it is placed in an audio rack. If ventilation is blocked, the unit may overheat and malfunction.
- Do not expose the unit to direct sunlight or heating units as the unit's internal temperature may rise and shorten the life of the pickup.
- Avoid damp and dusty places and places directly affected by vibrations from the speakers. In particular, avoid placing the unit on or above one of the speakers.
- Be sure the unit is placed in a horizontal position. Never place it on its side or on a slanted surface as it may malfunction.
- When you place the unit near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio, or VCR.

7. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth.

Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

8. Notes on Handling

When shipping the unit, use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.

- Do not use volatile liquids, such as insect spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long time. They will leave marks on the finish.
- The top and rear panels of the unit may become warm after a long period of use. This is not a malfunction.
- When the unit is not in use, be sure to remove the disc and turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.

9. To Obtain a Clear Picture

The unit is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

10. Notes on Moisture Condensation

Moisture condensation damages the unit.

Please read the following carefully.

• What is moisture condensation?

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside the unit, one of the most crucial internal parts of the unit.

• Moisture condensation occurs in the following cases.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the unit in a humid place.

• Do not use the unit when moisture condensation may occur.

If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After a few hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet and moisture condensation will seldom occur.

Table of Contents

Important Safeguards / Precautions / Table of Contents	2
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Getting Started

Notes on Discs	6
Playable Discs / The Structure of the Disc Content / About Video CDs / CD-R/RW Compatibility Information / Handling Discs / Cleaning Discs / Storing Discs / Notes on Copyright	
Features/Supplied Accessories	8
Features / Supplied Accessories	
Preparing the Remote Controller	9
Inserting the Batteries / Using the Remote Controller	

Facilities and Connections

Control Position and Names	10
Front Panel / Rear Panel / Display / Remote Controller	
Making Connections	13
Connecting to a TV / Connecting to an Amplifier	

Basic Operations

Turning on	17
Connecting the POWER	
Basic Playback	18
Starting Playback / Various Playback / Playing back CDs / Playing back MP3s/WMA's / Playing back JPEGs	

Advanced Operations

Other Operations	22
Random Play / Repeat Play / A-B Repeat Play / Memory Edit Play	
DVD settings	24
Selecting a Playback Audio Setting / Changing the Subtitle Language / Changing the Camera Angle	
Using On-Screen Display	26
Using On-Screen Display / Selecting a Track / Selecting a Time to Playback / Selecting the Play Mode / Enjoying the Playlist / Selecting the Repeat Mode / Changing the Time Display	

Function Setup

Customizing the Settings	30
Making Adjustments to Setting / Language Setup / Audio Setup / Display Setup / Disc Setup / Parental Setup	

Others




Troubleshooting	37
Specifications	39

Notes on Discs

This section shows you how to handle, clean, and store discs.

Playable Discs

This DVD Player can playback the following discs.

	Disc mark	Contents	Disc size
DVD-Video		Audio + Video (moving pictures)	12 cm
			8 cm
Video CD		Audio + Video (moving pictures)	12 cm
			8 cm
CD CD-R* CD-RW*		Audio	12 cm
			8 cm (CD single)

* The DVD Player can play CD-R/RW discs recorded in CD-DA format, with MP3/WMA audio files, or with JPEG image files. Some CD-R/RW discs may not be able to be played back.

- You cannot play discs such as CD-ROM, DVD-Audio, DVD-RAM, DVD-RW, etc., even if the marks in the above table are labeled on those discs.
- DVD discs that use other video formats than NTSC or PAL (e.g., SECAM) cannot be played on this DVD Player.
- Avoid using heart-shaped or octagonal discs. Playing irregularly shaped discs may damage the internal mechanism of the DVD Player.



Discs with shapes such as these cannot be played.

- Do not use discs that have residue from adhesive tape, rental discs that have peeling labels, or discs that have custom labels or stickers. Otherwise, you may not be able to eject the discs or the DVD Player may become inoperative.

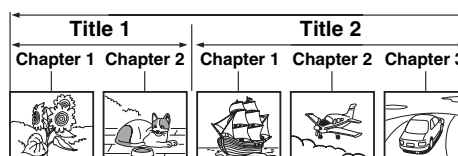
About playing copy-controlled CDs

Some audio CDs feature copy protection that doesn't conform to the official CD standard. Since these are nonstandard discs, they may not play properly in the DV-SP301.

The Structure of the Disc Content

DVD-Video

Normally, the contents of DVD-Video are divided into titles, and the titles are subdivided into chapters.



Video CD/CD

Video CD and CD are divided into tracks.



About Video CDs

This DVD Player supports Video CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on the type of disc.

- Video CD not equipped with PBC function (Version 1.1)**

Sound and movies can be played on this DVD Player in the same way as a CD.

- Video CD equipped with PBC function (Version 2.0)**
In addition to operation of the Video CD not equipped with the PBC function, you can enjoy playback with interactive software and search function using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this Instruction Manual may not work with some discs.

CD-R/RW Compatibility Information

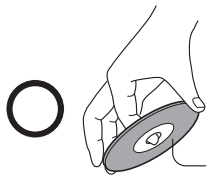
- **This system is not compatible with multi-session discs. If you try a multi-session disc, only the first session will be played.**
- Use CD-R or CD-RW media for recording your CD audio files, MP3/WMA files or JPEG image files.
- The discs must be in ISO9660 Level 2 format (folders can be up to eight levels deep).
- **Variable bit-rates (VBR) from 64 kbps to 384 kbps are supported for MP3, from 16 kbps to 192 kbps are supported for WMA. (Playing times may display incorrectly with VBR.)**
- WMA files must have the copyright option turned off.
- Sampling rates 44.1/48 kHz are supported for WMA.
- MP3 files should be MPEG1 Audio Layer 3 format, 32 kHz, 44.1 kHz (recommended) or 48 kHz, 32 kbps - 320 kbps (128 kbps recommended). Incompatible files will not play.
- This system only plays tracks that are named with the file extension ".mp3", ".MP3", ".wma", ".WMA", ".jpeg", ".JPEG", ".jpg" or ".JPG".
- This system is not compatible with progressive JPEG images. The maximum resolution is 1600 × 1200 pixels.
- If the file size is large, it may take some time to start playback.

Note

If the disc contains non-MP3/WMA/JPEG format data that has an extension listed above, the DVD Player will playback the data and may cause noise or malfunction.

Handling Discs

- Do not touch the playback side of the disc.



Playback side

- Do not attach paper or tape to discs.



Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

Storing Discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission. The video recorded on DVD-Video is copy protected, and any recordings made from these discs will be distorted. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.


Features/Supplied Accessories

Features

- Plays DVD-Video Discs, Video CDs, CDs
- 10-bit Video DAC
- Simultaneous output to all video connections
- Digital Outputs pass DTS[®]*1, Dolby[®]*2 Digital and PCM Signals
- Built-In Dolby[®] Digital decoder
- Full-function remote controller
- Direct Digital Path
- Pass 96 kHz PCM digital stream
- CD-R and CD-RW playable
- MP3/WMA[®]*3 CD Playback
- JPEG CD Playback
- Progressive Scan Video Output
- VLSC[®]*4 (Vector Liner Shaping Circuitry)

*1 “DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.

*2 Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

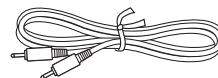
*3  Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

*4 An original Onkyo D/A converter which enables Pulse Noise Reduction.

Supplied Accessories

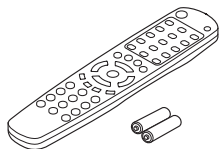
Make sure your box contains everything listed below.
If any pieces are missing, contact your nearest Onkyo dealer.
The number of accessories is indicated in brackets [].

RI cable [1]



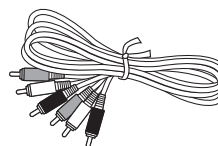
Cable used for system connections to an Integra/Onkyo component with an **RI** jack.
(The components will not function as a system with only **RI** connections. Be sure to connect the Analog RCA/phono connection cables correctly as well.)

Remote controller (RC-458DV) [1]

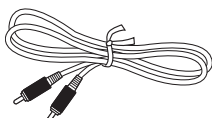


Batteries (size AAA/R3) [2]

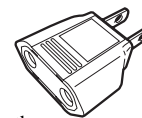
Audio/video cable [1]



Coaxial cable [1]



Conversion plug [1]



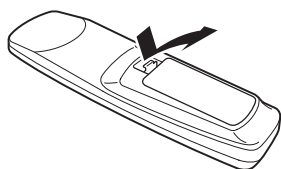
This plug is not supplied for certain regions. Shape may vary depending on the area in which it was purchased. Use this plug if the power cord plug of the DV-SP301 does not fit your AC outlet.

In catalogs and on packaging, the letter added to the end of the product name indicates the color of the DV-SP301.
Specifications and operations are the same regardless of color.

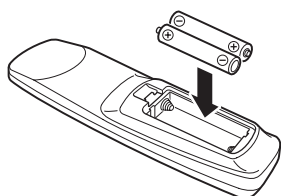
Preparing the Remote Controller

Inserting the Batteries

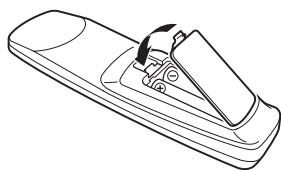
- ① Remove the battery compartment cover by pressing the tab and lifting up the cover.



- ② Insert the two batteries (size AAA/R3).
Be sure to match the + and – ends of the batteries with the diagram inside the battery compartment.



- ③ Replace the battery compartment cover.

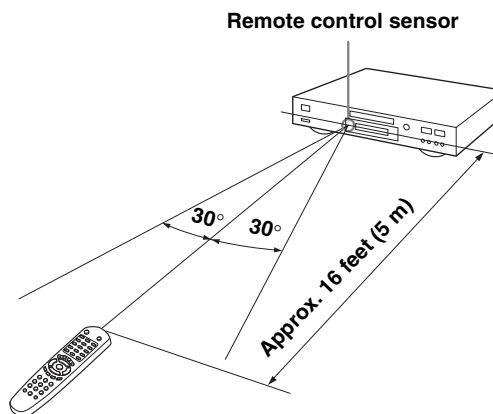


Notes

- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller does not operate smoothly, replace both batteries at the same time.
- The life of the batteries supplied is about six months but this will vary depending on usage.

Using the Remote Controller

Point the remote controller toward the remote control sensor.



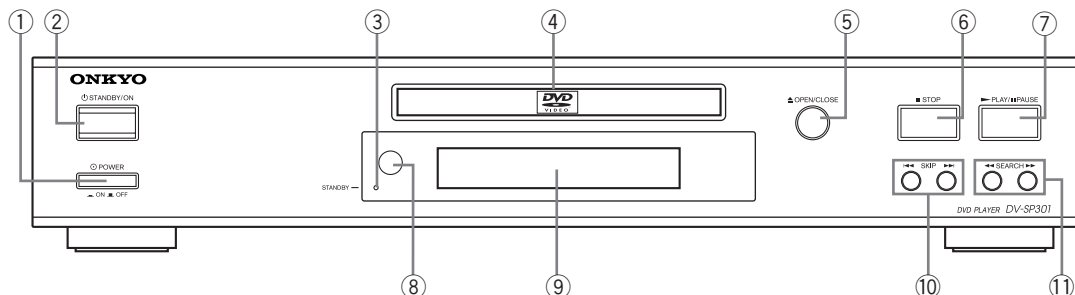
Notes

- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put any object such as a book on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

Control Position and Names

Front Panel

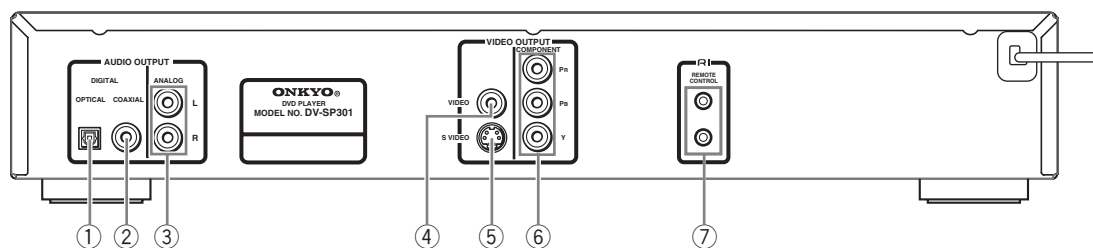
For operational instructions, see the page indicated in brackets [].



- ① **POWER button [17]**
Turns on the main power supply.
- ② **STANDBY/ON button [17]**
Toggle for standby and on.
- ③ **STANDBY indicator [17]**
Lights in the standby mode.
- ④ **Disc tray [18]**
- ⑤ **OPEN/CLOSE button [18]**
Press to open or close the disc tray.
- ⑥ **STOP button [18]**
Stops playing a disc. When disc is playing, if you press **STOP** and **PLAY**, the disc will start resume play. When **STOP** is pressed again during stop mode, the resume function is canceled.
- ⑦ **PLAY/PAUSE button [18]**
Begins to play disc (close disc tray first if it is open). Temporarily stops playback when a disc is playing. Press this button again for normal playback.
- ⑧ **Remote Control sensor [9]**
- ⑨ **Display [11]**
- ⑩ **SKIP buttons [19, 21]**
Allow you to move to the previous chapter or track / the next chapter or track on a disc.
- ⑪ **SEARCH buttons [19, 21]**
Allow you to search through a disc while it is in play mode. The search speed changes each time you press this button.

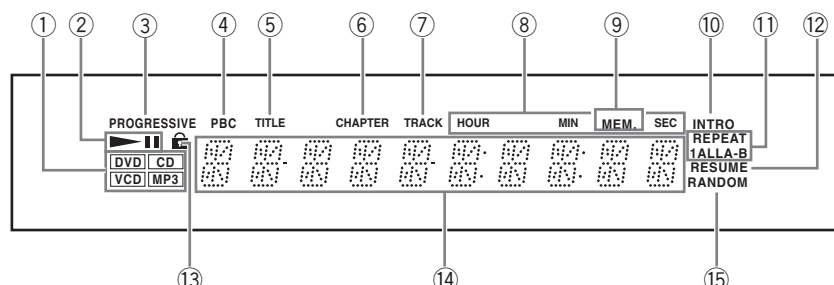
Rear Panel

For operational instructions, see the page indicated in brackets [].



- ① **DIGITAL OUTPUT OPTICAL jack [16]**
Use optical cable to connect your DVD Player to an AV component that features digital input capability. If the component has a Dolby Digital or DTS decoder, you can enjoy theater-quality multichannel sound.
- ② **DIGITAL OUTPUT COAXIAL jack [16]**
Use coaxial cable to connect your DVD Player to an AV component that features digital input capability. If the component has a Dolby Digital or DTS decoder, you can enjoy theater-quality multichannel sound.
- ③ **ANALOG OUTPUT jacks [13-16]**
Insert audio cables (left and rights) to these jacks on your DVD Player and to the corresponding Audio Input jacks (left and right) on your TV or receiver.
- ④ **VIDEO OUTPUT VIDEO jack [13]**
Connect a video cable to this jack and to the Video Input jack on your TV.
- ⑤ **VIDEO OUTPUT S VIDEO jack [14]**
If your TV has a S-Video jack, you can connect an S-Video cable to your TV and to your DVD Player for improved video quality. The S-Video cable only carries the video signal; remember to connect the left and right audio cables.
- ⑥ **VIDEO OUTPUT COMPONENT (Pr/Pb/Y) jacks [15]**
If your TV has component inputs, you can connect a component video cable to your TV and to your DVD Player for ideal video quality. The component video cable only carries the video signal; remember to connect the left and right audio cables. If you connect a TV that is compatible with a Progressive scan signal, you can enjoy both Interlaced and Progressive scan.
- Note**
Progressive scan only works with NTSC format discs.
- ⑦ **RI jacks [16]**
Connect RI jacks (Remote Interactive) cable to this jack and to another Onkyo AV component for synchronized control.
- Note**
You must make an analog RCA/phono connection, even if you connect digitally.

Display



① Disc indicators

Indicate the type of disc currently loaded.

② Play/Pause indicators

Illuminate in play or pause mode.

③ PROGRESSIVE indicator

Illuminates when the DVD player is set to progressive mode.

④ PBC indicator

Illuminates when PBC is on for Video CD.

⑤ TITLE indicator

Illuminates to indicate the current title number.

⑥ CHAPTER indicator

Indicates display mode of the current chapter of DVD disc.

⑦ TRACK indicator

Indicates display mode of the current track number of Video CD or CD.

⑧ Time indicator

Indicate playing time.

⑨ MEM. indicator

Illuminates during memory playback.

⑩ INTRO indicator

Illuminates during intro-scan playback.

⑪ REPEAT indicator

Illuminates during repeat playback.

⑫ RESUME indicator

Illuminates when the player is ready for resume playback.

⑬ Parental Lock indicator

Illuminates in parental lock mode.

⑭ Multifunction indicator

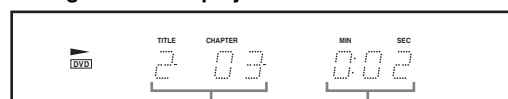
Indicates operating status, messages, etc.

⑮ RANDOM indicator

Illuminates during random playback.

■ Display Examples

During DVD-Video playback:



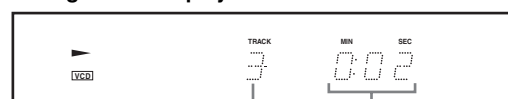
Playing chapter 3 of title 2

Time information of the current chapter

Notes

- Some discs may not display chapter numbers.
- A time indication not accompanied with a chapter number shows elapsed time of a segment within the current time.

During Video CD playback:



Playing track 3

Time information of the current track

Note

Some discs may not display track numbers or elapsed time.

During CD playback:



Playing track 3

Time information of the current track

During MP3/WMA audio playback:



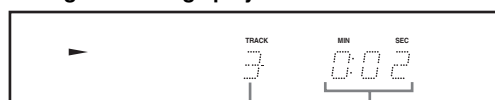
Playing track 3

Time information of the current track

Note

Track number is consecutive.

During JPEG image playback:



Playing 3rd image

Time information of the current image

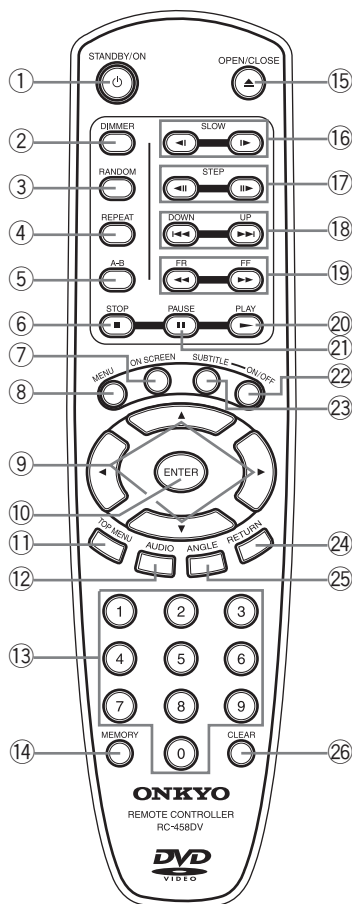
Note

The disc indicator does not light up for CDs that contain JPEG images.

Control Position and Names

Remote Controller

For operational instructions, see the page indicated in brackets [].



- ① **STANDBY/ON button [17]**
Toggle for standby on and off.
- ② **DIMMER button [19]**
Toggle to control the lightness of the display (3 steps).
- ③ **RANDOM button [22]**
Press to do random playback.
- ④ **REPEAT button [22]**
Press to repeat playback. You can repeat a title, chapter, track or entire discs.
- ⑤ **A-B button [23]**
Press to play section A-B repeatedly.
- ⑥ **STOP ■ button [18]**
Stops playing a disc. When a disc is playing, if you press **STOP ■** and **PLAY ►**, the disc will start resume play. When **STOP ■** is pressed again during stop mode, the resume function is canceled.
- ⑦ **ON SCREEN button [26-29]**
Press this button while you're playing a disc to see On-screen display. The On-screen display contains various playback features and gives you the information about the disc you're playing.

- ⑧ **MENU button [30]**
Displays the DVD Disc Menu on the TV screen in play mode and Setup Menu in stop mode.
- ⑨ **Cursor buttons (▲/▼/◀/▶) [20-30]**
Use the cursor buttons to select the items or settings.
- ⑩ **ENTER button [20-30]**
Press this button to select and execute a highlighted menu item.
- ⑪ **TOP MENU button [20-21]**
Press to call up the top menu programmed on the DVD. Depending on the DVD, the top menu may be identical to DVD menu or title menu. When playing a Video CD equipped with PBC function, DVD Player will automatically enter the PBC on mode. Press once to turn PBC off and press again to turn on.
- ⑫ **AUDIO button [24]**
Press to select various audio languages on a disc. When playing a Video CD, press to select the audio channel.
- ⑬ **Number buttons (0~9) [21, 26, 27, 36]**
Select numbers by pressing these buttons.
- ⑭ **MEMORY button [23]**
Press to see Memory Edit Display on the screen in stop mode.
- ⑮ **OPEN/CLOSE ▲ button [18]**
Press to open or close the disc tray.
- ⑯ **SLOW ◀I/I▶ buttons [19]**
Allow you to play movies in slow mode. Each time you press this button, slow speed will be changed. In the case of Video CD, reverse SLOW cannot be activated.
- ⑰ **STEP ◀II/II▶ buttons [19]**
Freeze a picture when a disc is playing. Also the picture advances frame by frame each time to press these buttons. In case of Video CD, reverse STEP can not be activated.
- ⑱ **DOWN ◀◀ / UP ▶▶ buttons [19, 21]**
Allow you to move to the previous chapter or track / the next chapter or track on a disc.
- ⑲ **FR ◀◀ / FF ▶▶ buttons [19, 21]**
Allow you to search in reverse or forward through a disc while it is in play mode. Each time you press these buttons, search speed changes.
- ⑳ **PLAY ► button [21, 23]**
Begins to play disc (close disc tray first if it is open).
- ㉑ **PAUSE II button [19]**
Temporarily stops playback when a disc is playing. Press **PLAY ►** button for normal playback.
- ㉒ **SUBTITLE ON/OFF button [25]**
Turns the subtitles on and off when playing a DVD.
- ㉓ **SUBTITLE button [25]**
Press to select various subtitle language on a disc.
- ㉔ **RETURN button [26, 30]**
When you're using the DVD Player's menu system, press this button to return to the preceding menu screen.
- ㉕ **ANGLE button [21, 25]**
Press to select various camera angles on a disc.
- ㉖ **CLEAR button [23]**
Press to clear entered values and settings.

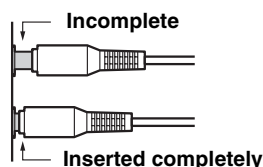
Making Connections

To accommodate a wide range of home entertainment systems, this player features numerous connection types for both audio and video. Please refer to the instructions on this and the following pages to determine the best possible type of connections for your system.

Before Connecting

- Refer to the instruction manuals supplied with any and all components that you plan to connect the DVD Player to.
- Be sure to turn off the power of all components to be connected and unplug them from the wall outlet before making any connections.
- Connect the DVD Player to the TV or AV component directly. If you connect the DVD Player to a VCR, TV/VCR combination, or video selector, the playback picture may be distorted as DVD Video images are copy protected.

- Connect the plugs securely.



Connecting to a TV

This player has 3 kinds of video output jacks. Select one of the following connections.

- Video jack connection: Use the supplied audio/video Connection Cable to connect.
- S-Video jack connection: For higher quality video than video jack connection.
- Component jack connection: For higher quality video than S-video jack connection.

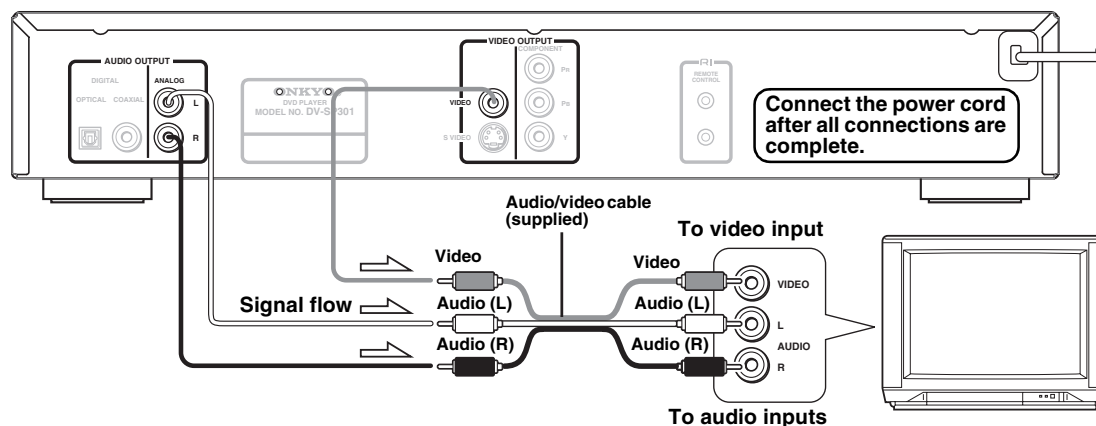
■ If your TV has Video Input connector

Using the supplied audio/video cable, make video connection from the VIDEO OUTPUT VIDEO jack to the corresponding video input jack on the TV.

In the same manner, make audio connections from the ANALOG OUTPUT L and R jacks to the corresponding audio input jacks on the TV.

Note

Be sure to match the colors of the plugs on the cable with the corresponding jacks on the DVD Player and the TV: yellow for video, red for R (right) audio and white for L (left) audio.

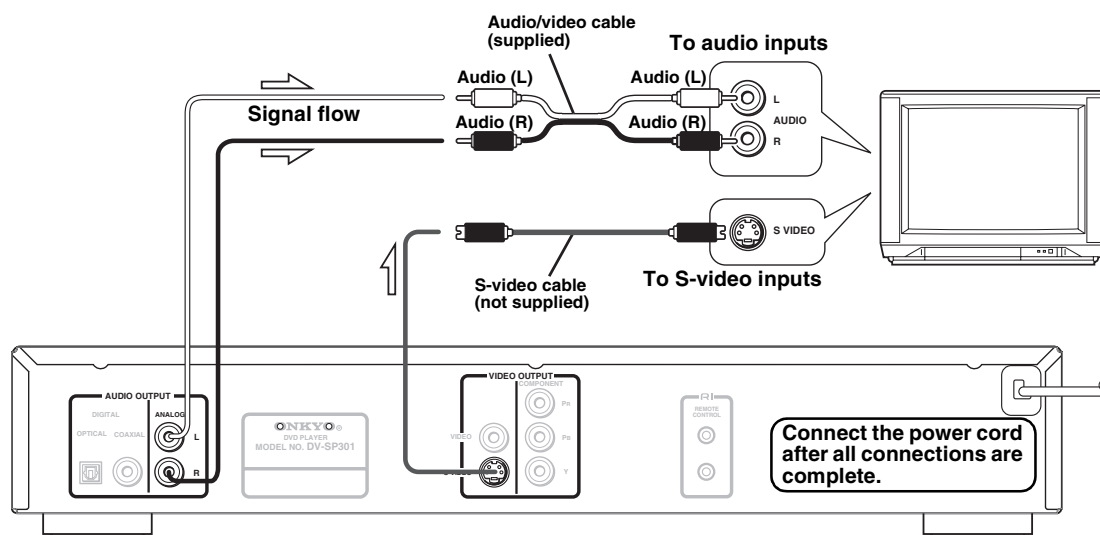


Making Connections

■ If your TV has S-Video input connector

If the TV or monitor has an S-video input, making this type of video connection will produce improved picture quality. Using an S-video cable (sold separately), connect the VIDEO OUTPUT S VIDEO jack to the corresponding S-video input jack on the TV.

In the same manner, make audio connections from the ANALOG OUTPUT L and R jacks to the corresponding audio input jacks on the TV.



■ If your TV has Component Input connector

If the TV or monitor has component video inputs, making this type of video connection will produce ideal picture quality for the presentation of DVD-Video. Using a component video cable (sold separately), connect the VIDEO OUTPUT COMPONENT jacks to the corresponding component video input jacks on the TV.

Actual labels for component video inputs may vary depending on the TV manufacturer. (e.g., Y, R-Y, B-Y or Y, CB, CR)

In some TVs or monitors, the color levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance.

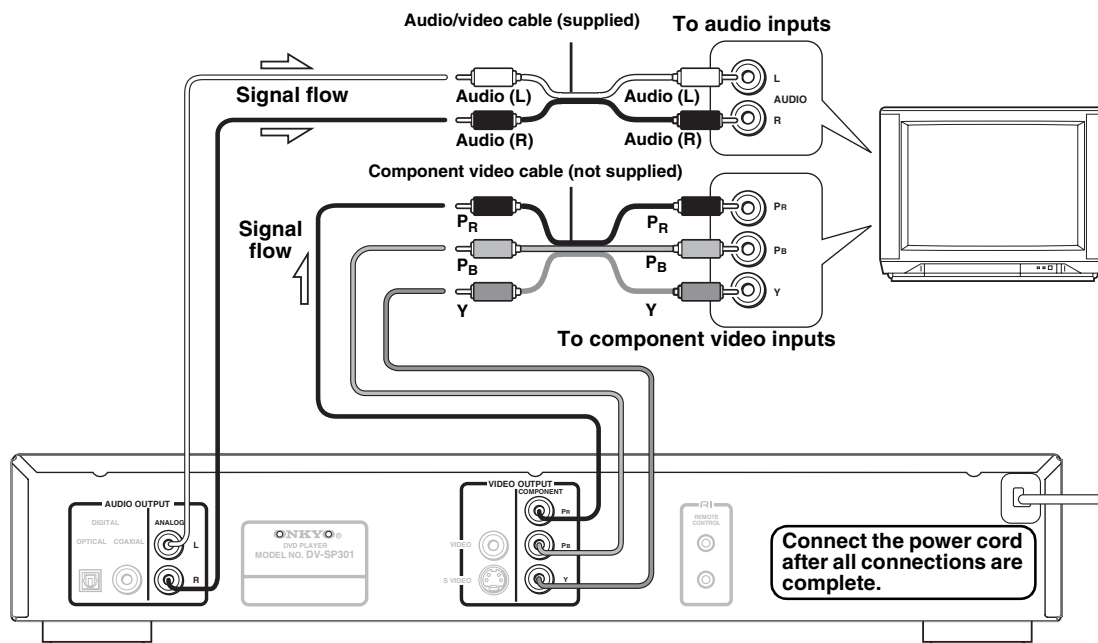
In the same manner, make audio connections from the ANALOG OUTPUT L and R jacks to the corresponding audio input jacks on the TV.

This connection is necessary to use progressive function.

To view Progressive scan video, you need a TV with Progressive scan capability. Please check your TV's manual.

Notes

- The DVD Player can output NTSC or PAL format video depending on the setting on page 34. Make sure your TV supports the disc's video format.
- Progressive scan can only work with NTSC format discs.



Making Connections

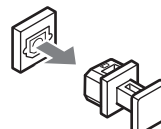
Connecting to an Amplifier (To enjoy the sound advantage of the DVD Player)

Although you can reproduce the DVD Player's sound from the TV speakers with the connections on pages 13, 14, and 15, connecting with an amplifier provides you high quality dynamic sounds.

To reproduce Dolby Digital surround and DTS surround sound, you need to connect to an amplifier with a Dolby Digital and DTS decoder respectively.

Notes

- When using the optical output jack, remove the protective cap and keep it safely. When the jack is not used, replace the protective cap.
- The function of the upper and lower **RI** connectors are the same. Connect to either one.
- A remote controller supplied with an Onkyo amplifier can be used to operate this DVD player.
- **Connecting the RI cable only does not make the system operational. You must also connect the analog RCA/phono cables as well.**



■ Making a digital connection with the amplifier

If your amplifier has a digital input jack, be sure to connect it to either DIGITAL OUTPUT OPTICAL or COAXIAL jack on the DVD player.

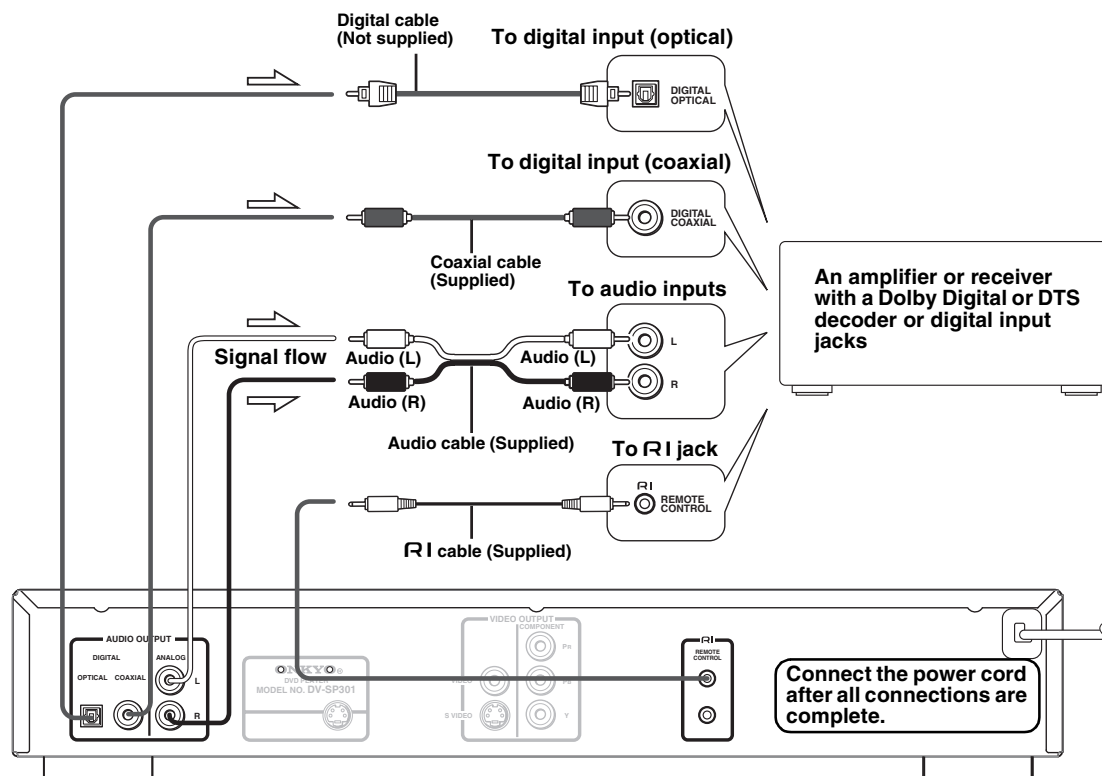
Note

DO NOT connect to the AC-3RF input (e.g. of a Dolby Digital receiver) which is reserved only for video disc players.

■ Making the analog connection with the amplifier

If your amplifier has no digital audio input, you can make the analog connection. If the amplifier has a Dolby Pro Logic decoder, you can reproduce the Dolby Pro Logic surround sound.

Be sure to set the "Digital Audio Out" setting after connection using the Setup explained on page 33.



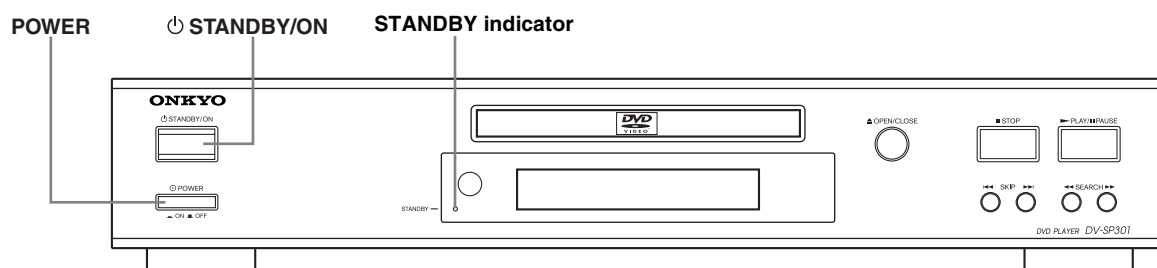
Turning on

Connecting the POWER

The DV-SP301 is shipped with the main power (**POWER**) switch in the on position (▲ON). When the power cord is plugged in for the first time, the DV-SP301 will automatically enter the standby mode and the STANDBY indicator will light (same condition after step 2 below).

Notes

- Make sure that all appropriate connections have been completed as described on page 13 to 16.
- Turning on the DVD Player may cause a momentary power surge, which might interfere with other electrical equipment such as computers. To prevent interference, use a wall outlet on a different circuit.



1 Plug the power cord into the power outlet on the wall.

2 Press **POWER** to switch on the main power.

The DVD Player enters standby mode.
The STANDBY indicator lights up.

Notes

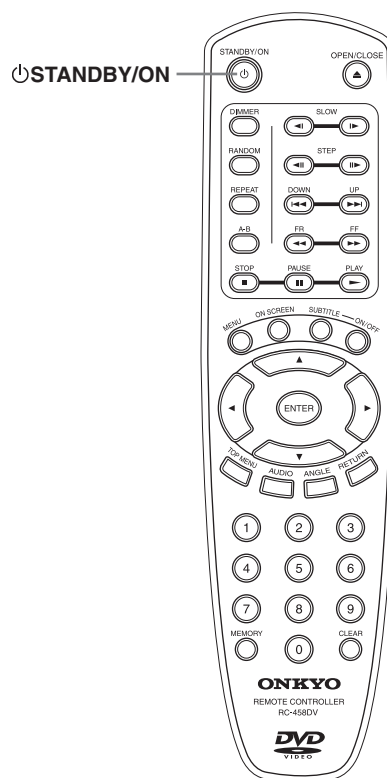
- The buttons on the remote controller do not operate if the **POWER** switch is set to OFF.
- To switch off the main power, press **POWER** again.
- The system remains in standby mode for 5 seconds after the power is turned on.

3 Press **STANDBY/ON** on the DVD Player or remote controller.

The DVD Player turns on and the STANDBY indicator turns off. It takes several seconds to read the disc in the disc tray.

Notes

- You can turn on the DVD Player by pressing **OPEN/CLOSE** ▲ or **PLAY/PAUSE** ►/II.
- To put the DVD Player in the standby mode, press **STANDBY/ON** on the DVD Player, or remote controller.
- While the STANDBY indicator lights up, the DVD Player can receive signals from the remote controller. However, if you press **POWER** on the DVD Player to switch off the main power, the remote controller cannot be used to turn on the DVD Player.
- Setting the **STANDBY/ON** button to standby does not shut off the power completely.



Basic Playback

Before playing

- Turn on the TV and set the TV to the DVD Player's input.
- Turn on the audio system and set it to the DVD Player's input, if an audio system is connected to the DVD Player.
- DVD-Video, Video CD, CD, MP3, WMA, JPEG can be played with the DVD Player (see "Notes on Discs" on page 6 and 7). Do not play anything else.

About the marks in the pages related to disc operation

DVD means the function or title is related to DVD-Video operation.

VCD means the function or title is related to Video CD operation.

CD means the function or title is related to audio CD operation.

MP3 means the function or title is related to MP3/WMA sound operation. Both MP3 and WMA are referred to as MP3 in the following pages.

JPEG means the function or title is related to JPEG image operation.

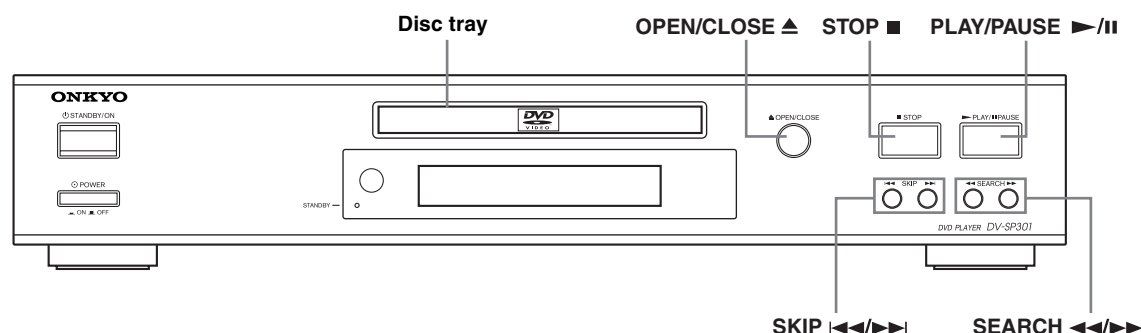
DVD **VCD** **CD** **MP3** **JPEG**

Warning

If the DVD Player is connected to the TV or amplifier through the analog audio jacks, do not play DTS-encoded discs. Excessive noise may be output from the analog stereo jacks, which may damage the connected equipment.

To reproduce DTS surround sounds, digital connection to an amplifier with a DTS decoder is needed.

Starting Playback



1 Press OPEN/CLOSE .

The disc tray opens. If the DVD Player is in standby mode when the **OPEN/CLOSE** button is pressed, the DVD Player turns on and the disc tray opens. In this case, it takes several seconds until the disc tray opens.

2 Place a disc on the disc tray.

Put the disc in the tray with the label side facing up. There are two different disc sizes. Place the disc in the correct guide on the disc tray.

3 Press PLAY/PAUSE .

The disc tray closes and playback starts. The appropriate disc indicator lights.

The disc indicator does not light up for CDs that contain JPEG images. For the other information that appears in the display, see page 11.

If the DVD Player is in standby mode when **PLAY/PAUSE** is pressed, the DVD Player turns on and playback starts. In this case, it takes several seconds until playback starts.

To stop playback

Press STOP .

When you press **PLAY/PAUSE** to restart playback, playback starts from the location where you stopped playback because the location index is stored in memory.

For JPEG image playback, see page 21.

Notes

- The location where playback resumes may vary depending on the disc or the scene where you stopped.
- Press **STOP** again after stopping playback to clear the location index memory, then press **PLAY/PAUSE** to start playback.

To remove the disc

Press OPEN/CLOSE to open the disc tray.

Remove the disc after the disc tray opens completely.

After removing the disc, be sure to press the button again to close the tray.

CAUTION

Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.

Tip to obtain a higher quality picture

Occasionally, some picture noise not usually visible during a normal broadcast may appear on the TV screen while playing a DVD-Video because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use, you should generally adjust the TV to reduce sharpness when viewing DVD-Videos.

Various Playback

DVD VCD CD MP3

■ To play in fast reverse (FR) or fast forward (FF)

Press **FR/FF** ◀◀/▶▶ during playback.

Each press of the same button changes the playback speed.
To resume normal playback, press **PLAY** ▶.

Note

The DVD Player mutes sounds and omits subtitles during fast reverse and fast forward of DVD-Video and Video CD.

DVD VCD CD MP3

■ To skip chapters or tracks

Press **DOWN/UP** ◀◀/▶▶ during playback.

The chapter (or track) in the direction of the button pressed is skipped, and the selected chapter (or track) will be played from the beginning. When **DOWN** ◀◀ is pressed once during playback, the chapter (or track) being played will be played from the beginning.

DVD VCD CD MP3

■ To pause playback (still mode)

Press **PAUSE** || during playback.

To start playback, press **PLAY** ▶.

DVD VCD

■ Playing frame by frame

Press **STEP** ◀II/II▶ repeatedly during playback.

Each time you press the button the picture advances one frame.
To resume normal playback, press **PLAY** ▶.

Note

Video CDs cannot be played frame by frame reverse.

DVD VCD

■ To play in slow-motion

Press **SLOW** ◀I/I▶ during playback.

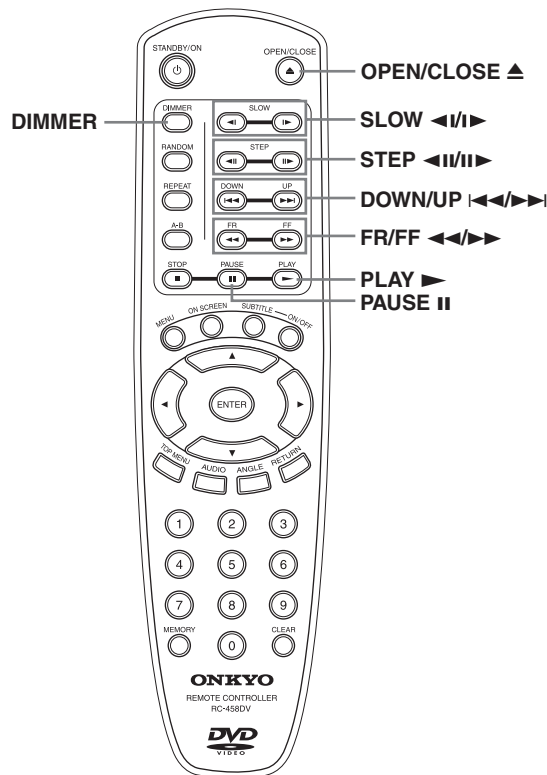
Each press of the same button changes the playback speed.
To resume normal playback, press **PLAY** ▶.

Note

Video CDs cannot be played in slow-motion reverse.

Notes

- The sound is muted during slow-motion, still mode, and frame by frame playback.
- The playback speed may differ depending on the disc.
- Do not move the DVD Player during playback. Doing so may damage the disc.
- Use **OPEN/CLOSE** ▲ on the remote controller or DVD Player to open and close the disc tray. Do not touch the disc tray while it is moving. Doing so may cause the DVD Player to malfunction.
- Do not press down on the disc tray or put any objects other than playable discs on the disc tray. Doing so may cause the DVD Player to malfunction.



■ Using DIMMER function

Press **DIMMER** to change the display brightness.

Each time **DIMMER** is pressed, the display brightness of the unit changes as shown below.

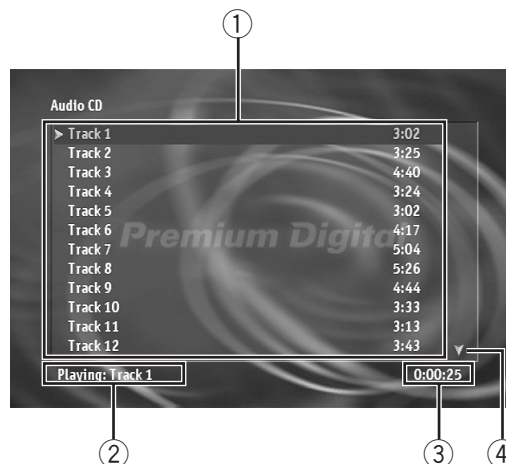
Normal → Dim Dark → More Dark → Normal

Basic Playback

Playing back CDs

When CD playback is started, this display appears on the screen.

- ① **Displays the track number and the total playing time.**
Press ▲/▼ to highlight the track you desire. Press **ENTER** to start playing the track.
- ② **Displays the currently playing track number.**
- ③ **Displays the time elapsed information of currently playing track.**
You can use the On-screen display to change the information.
- ④ **Indicates that there are more than 12 tracks.**
You can use ▲/▼ to scroll the screen.



Playing back MP3s/WMA

When MP3/WMA playback is started, this display appears on the screen.

- ① **Displays the directory of the currently selected track.**
- ② **Displays ▢ beside the currently selected track. Tracks in the current selected directory are highlighted.**
Press ◀/▶ to select the directory. Press ▲/▼ to select the track, then press **ENTER** to start playback.
- ③ **Displays the currently playing track.**
- ④ **Displays the time elapsed information of currently playing track.**
You can use the On-screen display to change the information.
- ⑤ **Indicates that there are more than 12 tracks.**
You can use ▲/▼ to scroll the screen.



Notes

- It is not possible to play back MP3/WMA discs that exceed the maximum limitations of the media (up to 999).
- Incompatible files will be skipped.
- Files will be played back in the sequence in which they were recorded (written).

Changing the display by pressing TOP MENU

You can switch between 3 types of display by pressing **TOP MENU**.

- **Track display**
- **Directory and track display**
 - 1 Press **ANGLE** to select the directory display and press ▲/▼ to select the directory you desire.
 - 2 Press **ANGLE** to select the track display.
 - 3 Press ▲/▼ to select the track you desire, then press **ENTER** to start playback.
- **Directory display**

Playing back JPEGs

You can play JPEG images on a CD-R or CD-RW which you recorded the images from digital camera using a PC, etc.



Changing the display by pressing TOP MENU

You can switch between 3 types of display by pressing TOP MENU.

- **Thumbnail display**
- **Directory and track display**
You can use **ANGLE** to select either tracks or directories.
- **Directory display**

Note

- The maximum resolution is 1600 × 1200 pixels.
- The display size is zoomed to fit in the TV screen.
- The maximum number of images is 999.

Displaying the information about the image

Press **SUBTITLE** to display the information about the image during slide show.

Current track name
/Folder name/.../Track name
Current track number/Total track number

Selecting the image you want to play directly

Use the number buttons to enter the image number you want to see directly.

The selected image appears.

Various Playback

Slide show

- 1 Press **PLAY** in the thumbnail display. The slide show starts.

The images change every 10 seconds.

- 2 Press **PAUSE** to stop the slide show at the image you want to see is displayed.

If you want to see the images one by one, press **DOWN/UP** $\blacktriangleleft/\blacktriangleright$ to select the image. To resume the slide show, press **PLAY** \blacktriangleright .

- 3 Press **STOP** to stop the slide show. The thumbnail view appears.

When the playback stops at the last image, press **TOP MENU** to display the thumbnail view.

Note

You can change the playback time and playback pattern using the main menu. See page 35.

Viewing the images one by one

- 1 In the thumbnail view, press $\blacktriangle/\blacktriangledown$ to select the image you want to see, then press **ENTER**.

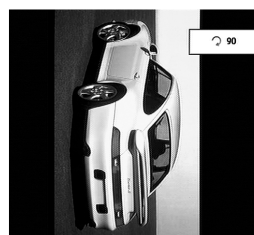
- 2 To see the next image, press **UP** $\blacktriangleright\blacktriangleright$.
To see the previous image, press **DOWN** $\blacktriangleleft\blacktriangleleft$.

- 3 To return to the thumbnail view, press **TOP MENU**.

To change to slide show while viewing the images one by one, press **PLAY** \blacktriangleright .

Rotating the image

When viewing the images one by one, press **ANGLE** or **FR/FF** $\blacktriangleleft/\blacktriangleright$ to rotate the images.



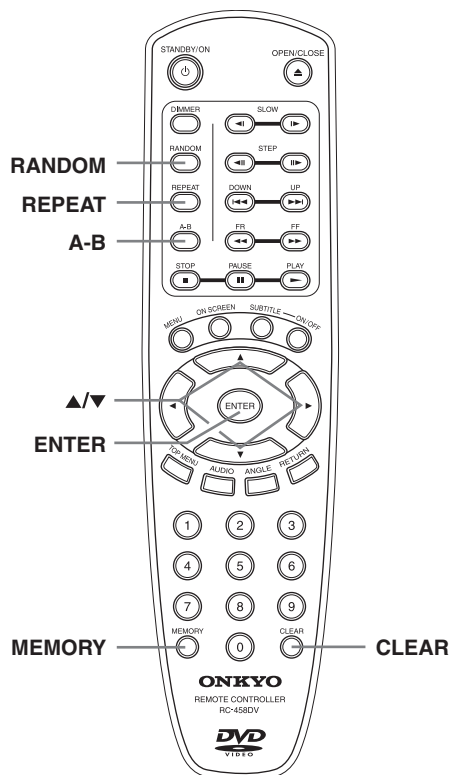
The image rotate 90° → 180° → 270° → 0°

This function is canceled when you open the disc tray or when the player turns into the stand-by mode.

Other Operations

The following operations can be performed directly from the remote controller.

- Random Play
- Repeat Play
- A-B Repeat Play
- Memory Edit Play



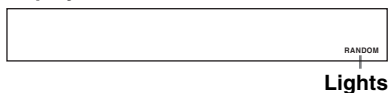
Random Play

The chapters or tracks of the disc are played in random order.

Press RANDOM

RANDOM indicator lights up.

Display



Lights

■ To cancel random play

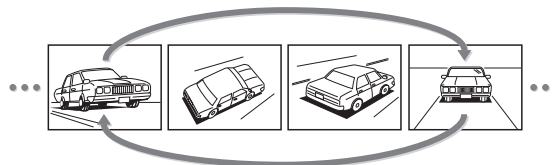
Press **RANDOM** so that **RANDOM** indicator goes off and "Normal" appears in the upper right position on the TV display. Each time you press **RANDOM**, random play will be on and off.

Notes

- You cannot play DVDs in random order.
- When playing a PBC-compatible Video CD with PBC on, you cannot play it in random order. To use random play, turn PBC off by pressing **TOP MENU**, then press **RANDOM**.
- In Random play, Backward skip is not possible. You can only skip forward.

DVD VCD CD MP3

Repeat Play



Desired disc or title can be played back repeatedly.

There are four repeat options:

- Disc Repeat the disc that is playing.
- Title Repeat the title that is playing.
- Chapter Repeat the chapter that is playing.
- Track Repeat the track that is playing.

Press REPEAT repeatedly during playback.

Each time you press **REPEAT**, the repeat option changes.

At the time of DVD playback

- Repeat Disc Repeats the entire disc.
- ↓
- Repeat Title Repeats the current title.
- ↓
- Repeat Chapter Repeats the current chapter.
- ↓
- Repeat Off Resumes normal playback.

At the time of Video CD/CD/MP3 playback

- Repeat Disc Repeats the entire disc.
- ↓
- Repeat Track Repeats the current track.
- ↓
- Repeat Off Resumes normal playback.

■ To cancel repeat play

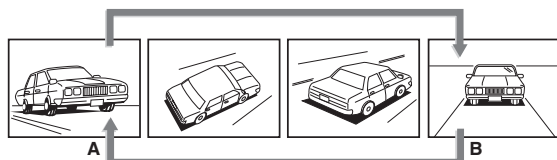
Press **REPEAT** so that **REPEAT** indicator goes off and "Repeat Off" appears in the upper right position on the TV display.

Notes

- When playing a PBC-compatible Video CD with PBC on, you cannot play it repeatedly. To use repeat play, turn PBC off by pressing **TOP MENU**, then press **REPEAT**.
- With some DVDs, repeat playback may not be possible.

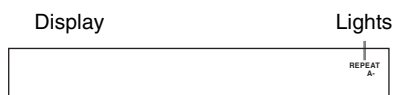
DVD VCD CD MP3

A-B Repeat Play

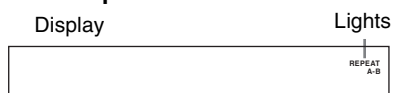


The A-B repeat function lets you mark a segment to repeat between the beginning “A” and the end “B” of the segment you want to replay.

- 1 Press **A-B** when you want to choose a scene (sound) as the beginning point.



- 2 Press **A-B** again to choose a scene (sound) as the end point.



The DVD Player automatically returns to point A and starts repeat playback of the selected segment (A-B).

■ To cancel A-B Repeat play

Press **A-B** so that REPEAT and A-B indicators goes off to display “Repeat A-B Off”.

Notes

- Repeat A-B will not function for segments under 3 seconds.
- When playing a PBC-compatible Video CD with PBC on, you cannot use A-B repeat function. To use A-B repeat function, turn PBC off by pressing **TOP MENU**, then press **A-B**.

CD MP3 JPEG

Memory Edit Play

The DVD Player automatically plays tracks in the order you program.

- 1 Press **MEMORY** to display “Create Playlist” on the top left.


- 2 Using **▲/▼**, select your favorite Track and then press **ENTER** to add the Track to the Playlist.

To see the Playlist display, press **MEMORY**. To return to the creating display, press **MEMORY** once again.

- 3 Repeat step 2 and create Playlist.

You can select a maximum of 999 values.

- To change the order of Tracks in the CD and MP3 Playlist.

1. Using **▲/▼** on the Playlist display to select the Track you want to move.
 2. Press **ENTER** to display , then use **▲/▼** to change the order.
 3. Press **ENTER** to confirm.
- (Not possible while the Playlist is being played)

- To erase the Tracks in the Playlist one by one.

1. Using **▲/▼** on the Playlist display to select the Track you want to erase.
2. Press **CLEAR**.

- 4 Press **PLAY ►** to play the Playlist

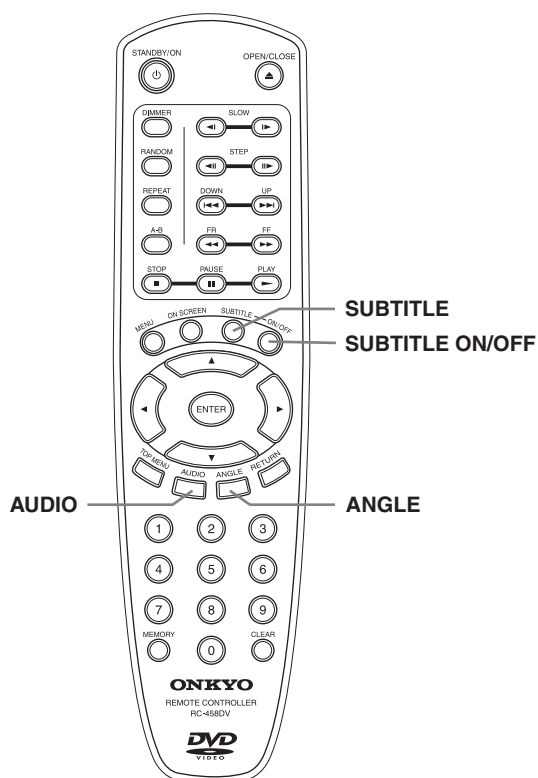
■ To stop playback of the playlist

Press **STOP ■** once to stop playback. It is possible to resume playback by pressing **PLAY ►**. Press **STOP ■** once more to disable playlist resume playback. When **STOP ■** is pressed for the third time, Playlist playback is canceled and returns to the normal playback mode.

DVD settings

The following operations can be performed directly from the remote controller.

- Selecting a Playback Audio Setting
- Changing the Subtitle Language
- Changing the Camera Angle



DVD

Selecting a Playback Audio Setting



You can select the preferred audio language and sound system as a set from those included on the disc. This function lets you temporarily change the audio language which you selected as the automatic setting in the setting menu (see page 31), and choose the sound system if the disc is recorded in more than one sound format.

- 1 Press AUDIO on the remote controller during playback.**



- 2 Press AUDIO to select the audio language.**



Notes

- 5.1 Channel sound may be displayed as "6ch".
- Before changing the setting, read through the explanation on "Digital Audio Out" on page 33 and carefully select the setting.
- Depending on the disc, it may be necessary to select the audio sound track using the DVD menu. When this is the case, press **MENU** to open the DVD menu and select the appropriate sound track as indicated on the DVD menu screen.
- When you turn on the DVD Player or replace a disc, the DVD Player returns to the automatic setting in the setting menu (see page 31).
- Depending on the disc, pressing **AUDIO** may display a disc menu. For more details, refer to the instruction notes on the disc.

DVD

Changing the Subtitle Language



You can display subtitles on the TV screen and select a subtitle language from those included on the DVD-Video.

- 1 Press **SUBTITLE** on the remote controller during playback.



- 2 Press **SUBTITLE** repeatedly to select the subtitle language.



- 3 Press **SUBTITLE ON/OFF** to select subtitle on or off.

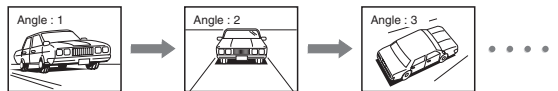


Notes

- When you turn on the DVD Player or replace a disc, the DVD Player returns to the automatic setting in the setting menu (see page 31).
- When you select a subtitle language which is not included on the disc, the DVD Player plays the prior language programmed on the disc.
- During some scenes, the subtitles may not appear immediately after you change the subtitle setting.
- Some DVD-Video are set to display subtitles automatically, and you cannot turn them off even if you set the subtitle function to off.
- Depending on the disc, pressing **SUBTITLE** may display a disc menu. For more details, refer to the instruction notes on the disc.

DVD

Changing the Camera Angle



If the scene was recorded from multiple angles, you can easily change the camera angle of the scene you are watching.

- 1 Press **ANGLE** on the remote controller during playback.



- 2 Press **ANGLE** to select camera angle.



Notes

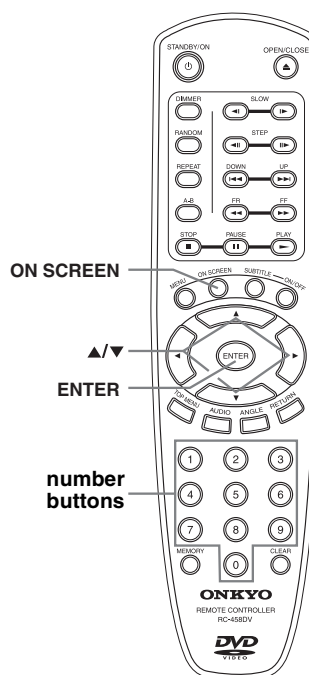
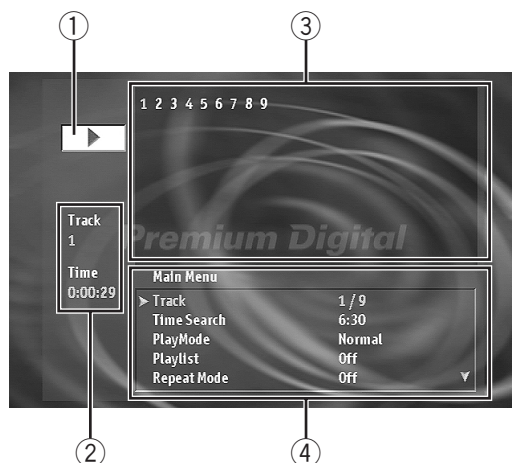
- You can change the camera angle during still playback. The camera angle changes to the new setting when you resume normal playback.
- If you pause a picture immediately after changing the camera angle, the resumed playback picture may not use the new camera angle.

Using On-Screen Display

The On-screen display contains many playback features.

The On-screen display is available for DVD, video CD, CD and MP3.

Using On-Screen Display



When the On-screen display appears, you can use only **PLAY**, **PAUSE II**, **STOP** buttons for playback operations.

Press ON SCREEN.

The contents of On-screen display depend on the type of disc being played. For example, when playing CDs, the On-screen display appears as above:

- ① **Playback Statement**
Displays the current playback information.
- ② **Disc Information**
Displays information on the currently playing Title, Chapter and Track, and the Time Information specified in the Main Menu. Displays the Bitrate* when playing MP3s.
- ③ **TV Screen**
Displays a smaller version of the TV screen.
Displays only the Track No. when playing CDs and MP3s.
- ④ **Main Menu**
Displays the setting features.
Press **▲/▼** to select a desired menu, and press **ENTER**.
When you select certain menu items and press **ENTER**, a submenu will appear. If you want to go back to main menu, press **RETURN**.

* Bitrate means how many bits are transferred per second during playback of an MPEG file. So Bitrate can tell you how much an MPEG file is compressed. The more it is compressed, the lower the bitrate.

■ To turn off the On-screen display

Press **ON SCREEN**.

Notes

- You can only access the On-screen display when a disc is loaded in the disc tray.
- The main menu features are only available if the disc was created with that particular feature (i.e., if you select the Subtitle icon, you won't be able to change the subtitle language unless the author of the disc created the disc with subtitles).
- The invalid symbol **×** or **○** appears on the screen when you press a button that doesn't have any function.

VCD > CD > MP3 >

Selecting a Track

To play from a specific Track.

1 Press ON SCREEN.



2 Press ▲/▼ to select Track.



3 Press ENTER.

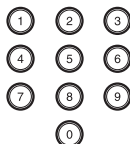
“__/12” appears.

The number after “/” means the number of Track in total.



4 Press the number buttons to enter the Track number.

When you enter a one-digit track number, you may have to press **ENTER** on the remote controller after pressing the number (1~9) on the remote controller. Otherwise press 0 first and the other value. Then playback starts.



Note

When playing PBC-compatible Video CD with PBC on, you cannot select a Track. To do this operation, turn PBC off by pressing **TOP MENU**.

DVD > VCD > CD > MP3 >

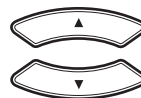
Selecting a Time to Playback

To play from your preferred Time.

1 Press ON SCREEN.



2 Press ▲/▼ to select Time Search.



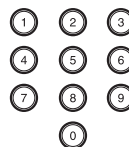
3 Press ENTER.

“__:__” appears.



4 Press the number buttons to enter the time.

Playback starts from that time.



Note

When playing PBC-compatible Video CD with PBC on, you cannot select a time. To do this operation, turn PBC off by pressing **TOP MENU**.

Using On-Screen Display

VCD CD MP3

Selecting the Play Mode

You can select normal play mode, random play mode or Intro scan play mode. In random play mode, you can listen to the tracks in random order. In intro scan play mode, you can listen only the first 10 seconds of each track.

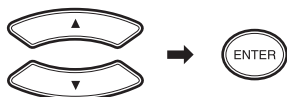
1 Press ON SCREEN.



2 Press ▲/▼ to select PlayMode and press ENTER.

Play Mode submenu appears and the play modes are listed.

Normal
Random
Intro



3 Press ▲/▼ to select one of the play mode and press ENTER.

The playback starts.



Notes

- After intro scan goes through all of the tracks, it stops.
- When playing PBC-compatible Video CD with PBC on, you cannot play in random order. To use random play, turn PBC off by pressing **TOP MENU**.
- You cannot select "Intro" with Video CDs.
- When playing a playlist, the intro scan and random play modes are not available.

CD MP3

Enjoying the Playlist

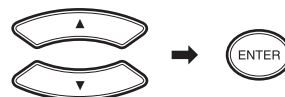
1 Perform steps 1 to 3 on page 23 to Create a playlist

2 Press ON SCREEN.



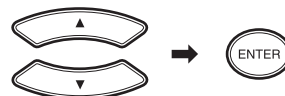
3 Press ▲/▼ to select Playlist and press ENTER.

Playlist submenu appears.



4 Press ▲/▼ to select "Enable Playlist" and press ENTER to start playback playlist.

"Playlist playing" appears on the upper left corner of the TV screen.



5 When you want to stop playback playlist, select "Disable Playlist" in Playlist submenu.

■ To access the playlist display from On-screen display

Select "Edit Playlist" in Playlist submenu. You will see the Playlist display.

■ To delete Playlist

Select "Delete Playlist" in Playlist submenu. All the tracks in playlist is deleted.

The memory is also cleared when a disc is removed from the player, when the power is turned off, or when the player enters the standby mode.

DVD VCD CD MP3

Selecting the Repeat Mode

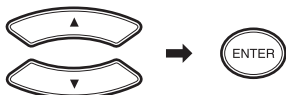
Desired disc, title, chapter, track or playlist can be played back repeatedly.

1 Press ON SCREEN.



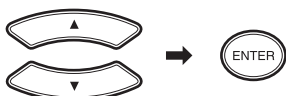
2 Press ▲/▼ to select Repeat Mode and press ENTER.

Repeat Mode submenu appears and the available repeat modes are listed.



3 Press ▲/▼ to select repeat mode and press ENTER.

The repeat playback starts.



4 To stop repeat playback, select Off in Repeat Mode submenu.

Notes

- When you create a playlist, you can repeat the playlist.
- When playing PBC-compatible Video CD with PBC on, you cannot play repeatedly. To use repeat play, turn PBC off by pressing **TOP MENU**, then press **REPEAT**.
- With some DVDs, repeat playback may not be possible.

DVD VCD CD MP3

Changing the Time Display

You can change the time on the On-screen display and the Front display.

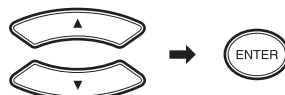
Total	Total time on the Disc
Total elapsed	Total time elapsed on the Disc
Total remain	Total time remaining on the Disc
Single elapsed	Time elapsed of Chapter or the Track
Single remain	Time Remaining of the Chapter or Track
Single	Total time of the Chapter or Track

1 Press ON SCREEN.

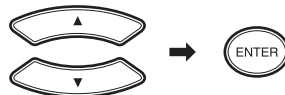


2 Press ▲/▼ to select Time Display and press ENTER.

Time Display submenu appears and the available time display options are listed.



3 Press ▲/▼ to select a time display you want to see and press ENTER.



Notes

- Total, Total elapsed, Total remain is not available for MP3.
- Total time for DVD indicates the total time of the title, and the single time for DVD indicates the total time of the chapter.

Customizing the Settings

You can customize this setting menu according to your preferences.

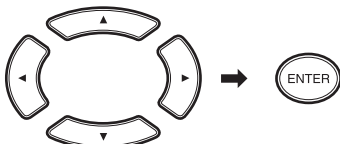


Making Adjustments to Setting

- 1 Press MENU during stop mode.**
The setup menu display appears.

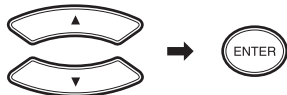


- 2 Press ▲/▼/◀/▶ to select the item you want to change, then press ENTER.**
Some settings will change when you press ENTER.



- 3 Press ▲/▼ to change the setting, then press ENTER.**

Further steps may be needed depending on the item or setting. Follow the steps described in the explanation of each item starting from page 31.



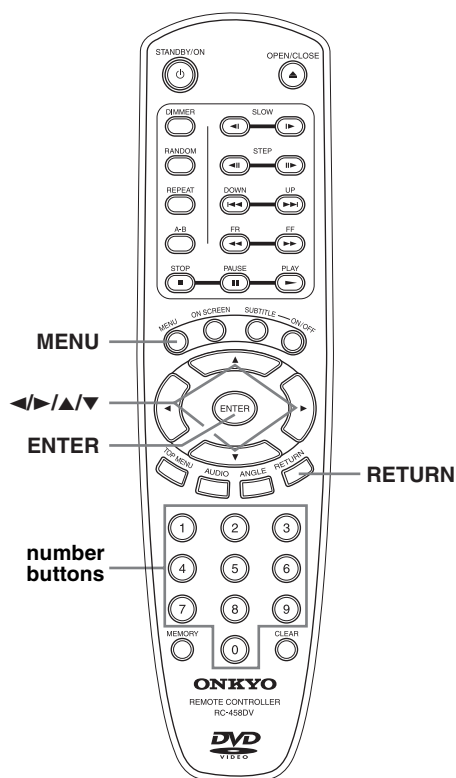
- 4 Repeat steps 2 to 3 to change the setting of other items.**

- 5 Press MENU to turn off the setup menu display.**



How to use RETURN

When **RETURN** is pressed, the display returns to the previous screen.



Language Setup



Player Menus

This sets the initial setup of language as well as the language used in On-screen messages such as “PLAY”.

English: To display setup menus in English.
Français: To display setup menus in French.
Español: To display setup menus in Spanish.
中文: To display setup menus in Chinese.

Disc Menus

This sets the menu language to be used when playing a disc. In addition to containing different audio languages, DVD may also contain menu screens in different languages as well. You can select languages from the list on the right.

Note

If a disc does not contain the selected language, the menu is displayed in the priority language set for each disc.

Disc Audio

This sets the language to be used when playing a disc. You can select languages from the list on the right.

Note

Depending on the disc, a language recorded on the disc may be given priority and selected automatically when the disc is loaded regardless of the setting.

Disc Subtitle

This sets the subtitle language to be displayed when playing a disc. To turn off the Subtitle, select [OFF]. You can select languages from the list on the right.

Note

If a disc does not contain the selected language, the subtitle is displayed in the priority language for each disc.

Selectable languages

English
 French
 German
 Spanish
 Turkish
 Japanese
 Italian
 Portuguese
 Chinese
 Korean
 Danish
 Swedish
 Finnish
 Norwegian
 Icelandic
 Hungarian
 Romanian
 Greek
 Russian
 Irish
 Dutch
 Other Selection

Note

When you select [Other Selection], use the number buttons to enter a language code selected from the list on the next page.

Customizing the Settings

Table of Languages and Their Code No.

Code No.	Language	Code No.	Language	Code No.	Language
6566	Abkhazian	7285	Hungarian	8285	Russian
6565	Afar	7383	Icelandic	8377	Samoaan
6570	Afrikaans	7378	Indonesian	8371	Sangho
8381	Albanian	7365	Interlingua	8365	Sanskrit
6577	Ameharic	7369	Interlingue	7168	Scots Gaelic
6582	Arabis	7375	Iunpiak	8382	Serbian
7289	Armenian	7165	Irish	8372	Servo-Groatian
6583	Assamese	7384	Italian	8384	Sesotho
6588	Aymara	7465	Japanese	8478	Setswana
6590	Azerbaijani	7487	Javanese	8378	Shona
6665	Bashkir	7578	Kannada	8368	Sindhi
6985	Basque	7583	Kashmiri	8373	Singhalese
6678	Bengali; Bangla	7575	Kazakh	8383	Siswati
6890	Bhutani	8287	Kinyarwanda	8375	Slovak
6672	Bihari	7589	Kirghiz	8376	Slovenian
6673	Bislama	8278	Kirundi	8379	Somali
6682	Breton	7579	Korean	6983	Spanish
6671	Bulgarian	7585	Kurdish	8385	Sundanese
7789	Burmese	7679	Laothian	8387	Swahili
6669	Byelorussian	7665	Latin	8386	Swedish
7577	Cambodian	7686	Latvian, Lettish	8476	Tagalog
6765	Catalan	7678	Lingala	8471	Tajik
9072	Chinese	7684	Lithuanian	8465	Tamil
6779	Corsican	7775	Macedonian	8484	Tatar
7282	Croatian	7771	Malagsy	8469	Telugu
6783	Czech	7783	Malay	8472	Thai
6865	Danish	7776	Malayalam	6679	Tibetan
7876	Dutch	7784	Maltese	8473	Tigrinya
6978	English	7773	Maori	8479	Tonga
6979	Esperanto	7782	Marathi	8483	Tsonga
6984	Estonian	7779	Moldavian	8482	Turkish
7079	Faroese	7778	Mongolian	8475	Turkmen
7074	Fiji	7865	Naru	8487	Twi
7073	Finnish	7869	Nepali	8575	Ukrainian
7082	French	7879	Norwegian	8582	Urdu
7089	Frisian	7967	Occitan	8590	Uzbek
7176	Galician	7982	Oriya	8673	Vietnamese
7565	Georgian	7977	Oromo (Afan)	8679	Volapuk
6869	German	8065	Panjabi	6789	Welsh
6976	Greek	8083	Pashto, Pushto	8779	Wolof
7576	Greenlandic	7065	Persian	8872	Xhosa
7178	Guarani	8076	Polish	7473	Yiddish
7185	Gujarati	8084	Portuguese	8979	Yoruba
7265	Hausa	8185	Quechua	9085	Zulu
7387	Hebrew	8277	Rhaero-Romance		
7273	Hindi	8279	Romanian		

Audio Setup



Digital Audio Out

■ LPCM

PCM ⇔ Off

This player is capable of outputting the LPCM audio signal. To output the LPCM audio signal, Select [PCM]. When you do not want to output the LPCM audio signal, select [Off].

■ Dolby Digital

Bitstream ⇔ PCM

This player is capable of outputting the Dolby Digital surround sound audio signal. When the player is connected to an AV component that has built-in Dolby Digital decoder, select [Bitstream]. This player can also convert the Dolby Digital signal to a digital Linear PCM signal, the same digital signal output from a CD. Select [PCM] when you have made connections to an amplifier or receiver with a Dolby Pro Logic decoder or a Digital Analog Converter (DAC).

■ DTS

Bitstream ⇔ Off

This player is capable of outputting the DTS digital audio for DVDs recorded in DTS. When the player is connected to an AV component that has built-in DTS decoder, select [Bitstream]. If your system is not equipped to decode DTS, select [Off]. Refer to the operating instructions supplied with your audio components if you are unsure about compatibility with DTS.

Note

If you have made digital audio connections to component(s) not equipped to decode the DTS digital bitstream, be sure to select [Off]. If a DTS signal is output without decoding, the output is digital noise that could potentially cause damage to your speakers.

■ MPEG

PCM ⇔ Bitstream ⇔ Off

This player is capable of outputting the MPEG digital bitstream. When the player is connected to an AV component that has a built-in MPEG decoder, select the [Bitstream] setting. Otherwise, select [PCM] to convert the digital signal to the PCM signal, the digital signal output from a CD. When you do not want to output the MPEG digital bitstream nor change the signal to PCM format, select [Off].

Dynamic Range

Maximum ⇔ Compressed

When the setting is [Compressed], soft sounds such as dialog can be heard more clearly without making loud sounds even louder. When the setting is set to [Maximum], there is no effect on the audio source.

Notes

- Dynamic Range is only effective with Dolby Digital audio sources.
- The level may differ depending on the DVD.
- The effect depends on your speakers and AV amplifier settings.

Down Sampling

True 96kHz ⇔ 48kHz Compatible

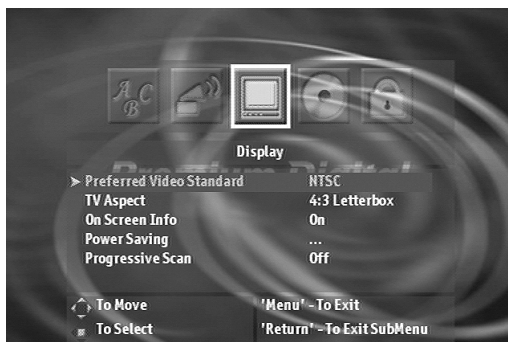
If your AV amplifier (or other connected component) is compatible with high sampling rates (96 kHz), set this to [True 96 kHz], otherwise set it to [48 kHz Compatible] (96 kHz audio is converted to a more compatible 48 kHz). Check the manual that came with the other component if you are unsure whether it is 96 kHz compatible.

Note

On DVDs that contain copy protection, the 96 kHz signal may only be output from the analog audio jacks.

Customizing the Settings

Display Setup



Preferred Video Standard

You can set the Video Standard with this option.

Content Specific: The player automatically selects NTSC or PAL depending on the disc.

NTSC: Plays the NTSC disc only.

PAL: Plays the PAL disc only.

TV Aspect

This sets the screen size (4:3 or 16:9 aspect ratio) according to the connected TV.

16:9 Wide screen

Choose this setting if your DVD Player is connected to a wider screen TV.



4:3 Letterbox

Choose this setting if you would prefer to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen. This setting may result in the movie appearing with black bars at the top and bottom of the screen.



4:3 Pan & Scan

Choose this setting if you want the movie to fill the entire screen of your TV. You won't see some parts of the picture (particularly the right and left edge). Some disc produced in a wide screen format can't be cropped in this fashion, which means the black bars would appear at the top and the bottom of the screen.



Notes

- The displayable picture size is preset on each DVD-Video. Therefore, the playback picture of some DVD-Video may not conform to the picture size you select.
- When you play a DVD-Video recorded in the 4:3 picture size only, the playback picture always appears in the 4:3 picture size regardless of the TV shape setting.
- If you select [16:9 Widescreen] and you own a 4:3 TV set, the DVD playback picture will be horizontally distorted during playback. Images will appear to be horizontally compressed. Make sure the TV Shape conforms to the actual TV in use.

On-Screen Info

On ⇄ Off

You can turn on or off the On-screen display which displays the playback information of discs, etc.

Power Saving

Screen Saver Time

As a protective function against residual images on the TV screen or monitor, a phenomenon referred to as "screen burnt", the screen saver appears when the same screen has been displayed for specified length of time.

Never: This function is not used.

3 Minutes: The screen saver appears when the same screen has been displayed for 3 minutes.

10 Minutes: The screen saver appears when the same screen has been displayed for 10 minutes.

30 Minutes: The screen saver appears when the same screen has been displayed for 30 minutes.

Note

Press any button to exit the screen saver.

Audio Screen Saver

On ⇄ Off

You can select the screen saver for use when playing back audio only sources such as CD or MP3. If "Audio Screen Saver" is set to [On] and "Screen Saver Time" is not set to [Never], the screen saver activates even during playback. If "Audio Screen Saver" is set to [Off] and "Screen Saver Time" is not set to [Never], the screen saver activates only after playback is stopped for a while. (The screen saver does not activate during playback.)

Standby Time

You can set the player to turn off automatically even when you forget to turn it off. When the player is in stop mode for the specified time, the player enters the standby mode automatically.

Never: This function is not used.

5 Minutes: The player turns off automatically if there is no operation is done for 5 minutes.

15 Minutes: The player turns off automatically if there is no operation is done for 15 minutes.

35 Minutes: The player turns off automatically if there is no operation is done for 35 minutes.

Progressive Scan

You can enjoy the progressive video images when component video connection is used to connect this player and TV compatible with progressive. Compared to a standard interlaced TV picture, a progressive scan TV is capable of stable, flicker-free images.

On ⇔ Off

Press **ENTER**, if your TVs and monitors have component video inputs and are compatible with Progressive scan.

No operation is necessary, if your TVs and monitors are not compatible with progressive scan.

Check the TV's instruction manual if you are not sure about this.

1. When you press **ENTER**, a warning appears.

Incorrectly setting this item can corrupt the picture. If the picture becomes distorted or unusable, wait a few seconds and the setting will be restored to its previous value. Press 'ENTER' to continue

2. Follow the guide, and press **ENTER** if your TV is compatible with Progressive Scan.

The setting has been changed.
Do you want to keep the new setting?
No
Yes

A confirmation display appears.

If your TV is not compatible with progressive scan, the display turns completely black if you Press **ENTER**. Then the display returns to the interlace display in a few seconds.

* If you cannot return to the Interlace display because your TV is not compatible with progressive, turn the player into the standby mode, then press **STANDBY/ON** on the unit while holding down **◀◀**.

Notes

- When component video is connected, you can use Progressive scan. If S-Video or Composite video is connected, Progressive scan is not available.
- If you connect a TV that is not compatible with a progressive scan signal and choose [On], the picture may be distorted. With your TV connected using either the Composite or S-Video terminals, choose [Off].
- Progressive Scan only works with NTSC format disc.
- When Progressive Scan is set to [On], the video signal is output from only the component video jacks. The video signal is not output from the composite video and S-video jacks.

Disc Setup



Auto Play

Select whether the player starts to play automatically when you close the disc tray or not.

On ⇔ Off

To start playback automatically, select [On]. If you do not want to start playback automatically, select [Off].

Slide Interval

Sets the playback time of each JPEG image in the slide show. (When the JPEG playback is in the slide show mode, "Slide Interval" sets the playback time for each image.) Use the number buttons to enter the time (from 1 to 59 seconds).

Start Transition

Selects the playback starting pattern of JPEG images in the slide show. (When a JPEG image appears in the screen, "Start Transition" selects the playback starting pattern.) Select the pattern you desire from the options.

End Transition

Selects the playback ending pattern of JPEG images in the slide show. (When a JPEG image fades out from the screen, "End Transition" selects the playback ending pattern.) Select the pattern you desire from the options.

Customizing the Settings

Parental Setup



This player lets you set the Parental Setting if the DVD has a parental lock level recorded on it. With Parental Lock capable discs, you can block access to material you feel is inappropriate for your children. Refer to the DVD disc jacket and the accompanying documentation to see if a particular disc contains a parental lock level.

To Set the Password

Select "Password", then press **ENTER**.

Enter a new 4digit password : _ _ _ _

Enter your password using number buttons.

The password is activated, and "Password" setting becomes On.

To Set the Country

Select "Country", press **ENTER**, then select [International] or [USA]. If you live in U.S.A., select [USA]. If you live in other countries, select [International].

Parental Level Setting

Change the Parental Level according to the settings printed on the DVD disc jacket or accompanying documentation. If you do not want to use Parental Level, select [Off].

When you select [International] for "Country"	When you select [USA] for "Country"
Off	Off
Kids	G
2	2
3	PG
4	PG-13
5	5
6	R
7	NC-17
Adult	X

If the parental level of the disc to be played back exceeds the parental level setting, you have to enter the password to play the disc.

Note

Be sure not to forget your password. If you forget it, open the disc tray, and press **STANDBY/ON** while holding down **SEARCH** ◀ on the unit. Next, press **POWER** to turn the system off. Press **POWER** again to turn the system back on and the password is cleared.

To change the password

1. Select "Change password" in the setting menu display, and press **ENTER**.

2. Enter the current password.

Enter current password : _ _ _ _

3. Enter the new password.

Enter a new 4digit password : _ _ _ _

To clear the password

1. Select "Password" in the setting menu display, and press **ENTER**.

2. Enter the current password.

Enter current password : _ _ _ _

The password is cleared, and "Password" setting becomes Off.

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service. Refer also to the respective instruction manuals of the connected components and TV.

DVD Player

Symptoms	Causes	Remedies	Pages
The DVD Player doesn't switch on.	<ul style="list-style-type: none"> The power cord is disconnected. The main power is set to OFF. There is external noise in the computer circuits of the DVD Player. The AC fuse is blown. 	<ul style="list-style-type: none"> Check the connection of the power cord. Turn on the main power. Switch off the main power, then switch it on again. If not recovered, disconnect the power cord, then connect it again. Contact your nearest Onkyo service center. 	17 17 17 -
The DVD Player doesn't start playback.	<ul style="list-style-type: none"> No disc is inserted. The region number of the disc does not match that of the DVD Player. An unplayable disc is inserted. The disc is placed upside down. The disc is not placed within the disc tray guide. The disc is dirty. The parental lock function is activated. 	<ul style="list-style-type: none"> Open the disc-tray and insert a disc. See Regional Restriction Codes (Region Number) on the rear panel. Check the playable discs. Place the disc with the playback side down. Place the disc within the proper guide on the disc tray. Eject the disc and clean it. Deactivate the parental lock function or change the parental lock level. 	18 4 6, 7 18 18 7 36
Brightness is unstable or noise is visible on the playback picture.	<ul style="list-style-type: none"> Copy protection is activated. The TV is not compatible with progressive scan signal. 	<ul style="list-style-type: none"> Connect the DVD Player directly to the TV. Avoid connecting the DVD Player to the TV through a VCR. Reset to the initial setting. 	13-15 35
The playback picture is occasionally distorted.	<ul style="list-style-type: none"> The disc is dirty. It is in fast forward or fast reverse playback. The disc does not meet the standard. 	<ul style="list-style-type: none"> Eject the disc and clean it. Sometimes a small amount of picture distortion may appear. This is not a malfunction. See "CD-R/RW Compatibility Information". 	7 - 7
Playback doesn't follow the course of the disc's programs.	<ul style="list-style-type: none"> The DVD Player is in repeat playback mode, memory playback mode, or random playback mode, etc. 	<ul style="list-style-type: none"> Resume normal playback. 	18
The picture from the DVD Player doesn't appear on the TV screen.	<ul style="list-style-type: none"> The TV is not set to receive the output signals from the DVD Player. The DVD Player is not properly connected. 	<ul style="list-style-type: none"> Set the TV to the DVD Player's input. Check the connections to the DVD Player. 	- 13-15
No sound or inaccurate sound is reproduced.	<ul style="list-style-type: none"> A wrong sound signal conversion method (Digital Audio Out) is selected. The TV is not set to receive the output signals from the DVD Player. The DVD Player is not properly connected. The system is in fast-forward, rewind or slow-motion play mode. The disc does not meet the standard. 	<ul style="list-style-type: none"> Check the current sound signal conversion method, and select the right setting for "Digital Audio Out". Set the TV to the DVD Player's input. Check the connections to the DVD Player. Resume normal playback. See "CD-R/RW Compatibility Information". 	33 - 13-16 18 7
The buttons on the remote controller and DVD Player do not operate.	<ul style="list-style-type: none"> Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operation. 	<ul style="list-style-type: none"> Switch off the main power, then switch it on again. If not recovered, disconnect the power cord, then connect it again. 	17

Troubleshooting

Remote Controller

Symptoms	Causes	Remedies	Pages
The buttons on the DVD Player operate but the buttons on the remote controller do not operate.	• No batteries are inserted in the remote controller.	• Insert new batteries.	9
	• The batteries are worn out.	• Replace with new batteries.	9
	• The remote controller is not pointed at the remote sensor of the DVD Player.	• Point the remote controller at the remote sensor of the DVD Player.	9
	• The remote controller is too far from the DVD Player.	• Operate the remote controller within 5 m (16 feet).	9

Because the unit contains a microcomputer to provide advanced functions, it may malfunction due to external noise or static electricity. If this happens, press the POWER switch on the unit and then press it again after about five seconds.

Specifications

■ DVD Player

Power supply	AC 120 V, 60 Hz (North America models) AC 110-240 V, 50/60 Hz (Other models)	
Power consumption	16 W	
Weight	6.6 lbs, 3.0 kg	
External dimensions (W × H × D)	17-1/8" x 3-3/16" × 11-1/8" 435 × 81.5 × 283 mm	
Signal system	PAL/NTSC	
Frequency response	Digital output	4 Hz to 22 kHz (48 kHz sampling)
	DVD linear sound	4 Hz to 44 kHz (96 kHz sampling)
Signal-to-noise ratio (digital output)	More than 90 dB	
Audio dynamic range (digital output)	More than 95 dB	
Harmonic distortion (digital output)	Less than 0.008 %	
Wow and flutter	Below measurable level	

■ Outputs

Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack	
S-video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., (C) 0.286 V (p-p), 75 Ω, Mini DIN 4-pin	
Component video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., (P _B)/(P _R) 0.7 V (p-p), 75 Ω, pin jack	
Audio output	Optical digital output	-22.5 dBm, optical connector
	Coaxial digital output	0.5 V (p-p), 75 Ω, pin jack
	Analog output	2.0 V (rms), 100 Ω, pin jack (L, R)

Specifications and features are subject to change without notice.

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